	$\neg \land \land \land \land \land$	$N = P_{\lambda}$	AR^{r}	7'''	
		d nanoparticle for r			
		a fianoparticle for i	lanotechnolog	ly	
Certificate of	f Analysis				
Product Family		Nanopartz G	old Nanorods	S	
Product Number		A12-10-600-CTAB-DIH-1-25			
Lot #		12M597-11996			
Form		Gold Colloid			
Capping Agent		CTAB			
Solution		18MEG DI W	/ater		
Source		F3210			
SPR Peak	nm	measured	UV/VIS	610	
SPR Abs	OD	measured	UV/VIS	1.1	
LSPR Peak	nm	measured	UV/VIS	523	
LSPR Abs	OD	measured	UV/VIS	0.8	
pH Zeta Potential	m\/	measured	Expt.	7	
Zeta Potential Diameter	mV nm	measured measured	DLS TEM	35 10	
	nm	measured	TEM	20	
Length Aspect Ratio	nm	calc	I EIVI	2.0	
Concentration	nps/mL	calc		1.5E+12	
Wt. conc.	mg/mL	calc		0.039	
Concentration	ppm	calc		38.5	
Wt %	%	calc		0.0039%	
Molarity	nM	calc		2.54	
Molar Ext.	M-1cm-1	calc		4.3E+08	
CTAB	mM	measured		5	
Volume	mL	measured		25	
Date				7/8/2023	
Exp Date				1/4/2024	
Exp Date				17472024	
Alex Schoen, Ma	nager Quality C	ontrol			
Absorbance					
1.25					
1				•	
0.75	1				
0.5					
0.25	+++				
0					
-0.25					
400 60	0 800 100	0			
	Wavelength (nm)	F3 Ca	210.jpg 1: 0.356379 nm/pix 59:23 p 02/23/15	100 nm HV=80.0kV	
				HV=80.0kV Direct Mag: 39000x	